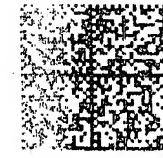


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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/003,329	10/31/2001	Wei Xiong	M-12237 US	5270

24251 7590 11/02/2004
SKJERVEN MORRILL LLP
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SAN JOSE, CA 95110

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NOV 12 2004

Technology Center 2600

EXAMINER

TUCKER, WESLEY J

ART UNIT	PAPER NUMBER
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2623

6

DATE MAILED: 11/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/003,329	XIONG, WEI
	Examiner Wes Tucker	Art Unit 2623

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 31 October 2001.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-60 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-60 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 12 March 2002 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4.	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____ .

DETAILED ACTION

Specification

The disclosure is objected to because it contains an embedded hyperlink and/or other form of browser-executable code. Applicant is required to delete the embedded hyperlink and/or other form of browser-executable code. See MPEP § -608.01. There are a number of URLs in the specification that must be removed. URLs are found on pages 15 and 28.

The disclosure is objected to because of the following informalities: the Appendices A, B, and C on pages 36-56 are improper because they are printouts from web pages that may be copyrighted. They include figures and graphic "buttons" icons, URLs etc. The appendices therefore must be removed and the specification may be amended to include the text of the appendices. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-11, 26-37, 41-44, and 46-56 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent 5,963,675 to van der Wal et al.

With regard to claim 1, van der Wal discloses a method for stabilizing motion in a sequence of frames (column 6, lines 16-41).

Van der Wal further discloses identifying one or more features in a first frame in the sequence of frames (Fig. 2a and column 6, lines 31-41). The "x" in the frames is considered to be the feature in the sequence of frames.

Van der Wal further discloses calculating tracked positions for one or more features in each other frame in the sequence of frames based on the features in the first frame (Fig. 2b and column 6, lines 42-46);

Van der Wal further discloses calculating ideal positions for the features in each other frame in the sequence of frames based on the tracked positions (Fig. 2c and column 6, lines 45-52);

Van der Wal further discloses identifying transformation information based on the tracked positions and the calculated positions (Fig. 2c and column 6, lines 45-52); and

Van der Wal further discloses transforming each other frame in the sequence of frames by adjusting pixels in each other frame based on the transformation information (Figs. 2c, 2d and 3 and column 6, lines 50-64).

With regard to claim 2, van der Wal discloses the method of claim 1, further comprising determining whether the sequence of frames was recorded with fast camera

motion or slow camera motion (column 6, lines 25-30). Van der Wal discloses that several modes are known in the art for stabilizing video images that require determining the type of camera motion.

With regard to claim 3, van der Wal discloses the method of claim 2, further comprising when it is determined whether the sequence of frames was recorded with fast camera motion, performing matching to calculate tracked position for each feature in a second frame in the sequence of frames (column 6, lines 25-30 and 37-53, and column 7, lines 20-40 and Figs. 2a-2d and 4). Van der Wal discloses performing a hierarchical correlation, which is interpreted as matching between images.

With regard to claim 4, van der Wal discloses the method of claim 3, wherein matching further comprises identifying one or more features in the second frame and matching the one or more features in the first frame to the one or more features in the second frame (column 6, lines 25-30 and 37-53, and column 7, lines 20-40 and Figs. 2a-2d and 4).

With regard to claim 5, Wal discloses the method of claim 2, further comprising when it is determined that the sequence of frames was recorded with slow camera motion, performing global tracking to calculate estimated positions for each of the one or more features in the second frame (column 6, lines 25-30 and 37-53 and Figs. 2a-2d).

With regard to claim 6, Wal discloses the method of claim 5, wherein global tracking further comprises selecting a first feature and searching a portion of the second frame to find a feature that corresponds to the selected first feature in the first frame (column 6, lines 64-67 and column 7, lines 1-40). Wal discloses a method of determining correlation between the frames in a pyramid hierarchy scheme to determine the amount of motion between the two frames. The method finds correlations for small neighborhoods of pixels or areas of interest and works its way up.

With regard to claim 7, Wal discloses the method of claim 1, wherein calculating tracked positions further comprises performing local tracking (column 6, lines 37-53 and Figs. 2a-2d). The process of tracking the object of interest from frame to frame is interpreted as local tracking.

With regard to claim 8, Wal discloses the method of claim 1, wherein calculating ideal positions further comprises plotting the tracked positions in an X, Y coordinate graph; and drawing a motion trajectory by connecting a first one of the plotted tracked positions with a last one of the plotted tracked positions (Figs. 2a-2d). Wal discloses the process of plotting the points of interest in several consecutive frames. The motion trajectory is plotted in the figures and are considered to possess X, Y coordinate points.

With regard to claim 9, Wal discloses the method of claim 8, wherein the motion trajectory is linear (Fig. 2d).

With regard to claim 10, Wal discloses the method of claim 8, wherein the motion trajectory is non-linear (Fig. 2b and 2c).

With regard to claim 11, Wal discloses the method of claim 8, wherein the ideal comprises positions on the motion trajectory (Fig. 2d).

With regard to claim 26, Van der Wal discloses a system comprising a computer including a processor and a memory (Figs. 5 and 6).

Van der Wal further discloses a sequence of frames stored in the memory (Figs. 2a-2d).

Van der Wal further discloses a program stored in memory of the computer, wherein the program is executed by the processor of the computer to identify one or more features in a first frame in the sequence of frames (Fig. 2a and column 6, lines 31-41). The "x" in the frames is considered to be the feature in the sequence of frames.

Van der wal further discloses calculating tracked positions for one or more features in each other frame in the sequence of frames based on the features in the first frame (Fig. 2b and column 6, lines 42-46).

Van der Wal further discloses calculating ideal positions for the features in each other frame in the sequence of frames based on the tracked positions (Fig. 2c and column 6, lines 45-52).

Van der Wal further discloses identifying transformation information based on the tracked positions and calculated positions (Fig. 2c and column 6, lines 45-52).

Transform each other frame in the sequence of frames by adjusting pixels in each other frame based on the transformation information (Figs. 2c, 2d and 3 and column 6, lines 50-64).

With regard to claim 27, Van der Wal discloses the system of claim 26, further comprising: a video camera for recording a sequence of frames (column 6, lines 25-30).

With regard to claim 28, Van der Wal discloses the system of claim 27, wherein execution of the program further comprises determining whether the sequence of frames was recorded with fast camera motion or slow camera motion (column 6, lines 16-30).

With regard to claim 29, Van der Wal discloses the system of claim 28, wherein execution of the program further comprises when it is determined that the sequence of frames was recorded with fast camera motion, performing matching to calculate tracked positions for each feature in a second frame in the sequence of frames (column 6, lines 25-30 and 37-53, and column 7, lines 20-40 and Figs. 2a-2d and 4). Van der Wal

discloses performing a hierarchical correlation, which is interpreted as matching between images.

With regard to claim 30, Van der Wal discloses the system of claim 29, wherein the execution of the program further comprises identifying one or more features in the second frame and matching the one or more features in the first frame to the one or more features in the second frame (column 6, lines 16-52 and Figs. 2a-2d).

With regard to claim 31, Van der Wal discloses the system of claim 28, wherein execution of the program further comprises when it is determined that the sequence of frames was recorded with slow camera motion, performing global tracking to calculate estimated positions for each of the one or more features in the second frame (column 6, lines 16-52 and Figs. 2a-2d). Van der Wal discloses that a determination is made as to remove motion depending on the kind of camera motion and then the process of matching points of interest in the sequence of frames is explained.

With regard to claim 32, Van der Wal discloses the system of claim 31, wherein execution of the program further comprises selecting a first feature in the first frame and searching a portion of the second frame to find a feature that corresponds to the selected first feature in the first frame (column 6, lines 64-67 and column 7, lines 1-40). Wal discloses a method of determining correlation between the frames in a pyramid hierarchy scheme to determine the amount of motion between the two frames. The

method finds correlations for small neighborhoods of pixels or areas of interest and works its way up.

With regard to claim 33, Van der Wal discloses the system of claim 27, wherein execution of the program further comprises plotting the tracked positions in an X, Y coordinate graph (Figs. 2a-2b and column 6, lines 30-41), and drawing a motion trajectory by connecting a first one of the plotted tracked positions with a last one of the plotted tracked positions (Figs. 2a-2b and column 6, lines 42-53). Van der Wal discloses that the motion of the point of interest is tracked from one frame to the next to determine displacement. This is interpreted as a motion trajectory vector between plotted tracked positions.

With regard to claim 34, Van der Wal discloses the system of claim 33, wherein the motion trajectory is linear (Fig. 2d).

With regard to claim 35, Van der Wal discloses wherein the motion trajectory is non-linear (Fig. 2b).

With regard to claim 36, Van der Wal discloses wherein the ideal positions comprise positions on the motion trajectory (Figs. 2c and 2d).

With regard to claim 41, the discussion of claims 26 and 27 applies. Van der Wal discloses a camera for use in the system discussed (column 6, lines 25-30).

With regard to claim 42, the discussion of claims 28 and 29 applies.

With regard to claim 43, the discussion of claims 28 and 29 applies. Van der Wal discloses that a determination is made on how to sense camera motion as either fast or slow in order to track objects of interest (column 6, lines 20-30).

With regard to claim 44, Van der Wal discloses the system of claim 41, further comprising means for calculating estimated positions for features in a frame (column 6, lines 16-52 and Figs. 2a-2d).

Van der Wal further discloses means for calculating tracked positions based on the estimated positions (Figs. 2a-2c) and means for drawing a motion trajectory based on the tracked positions (Fig. 2d).

With regard to claim 46, the discussion of claim 33 applies.

With regard to claim 47, Van der Wal discloses wherein the ideal positions comprise positions on the motion trajectory (Figs. 2a-2d).

With regard to claim 48, the discussion of claim 1 applies. Van der Wal discloses a computer readable storage medium in use with the method disclosed in claim 1 (Figs. 5 and 6).

With regard to claims 49-55, the discussions of claims 2-8 apply respectively.

With regard to claim 56, the discussion of claim 11 applies.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 12, 20-21, 24-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 5,963,675 to van der Wal et al.

With regard to claim 12, Wal discloses the method of claim 11, wherein an ideal position for a point of interest has X and Y coordinates (Figs. 2a-2d), but does not explicitly disclose where a point of interest has a same X-coordinate and a different Y-coordinate as compared to a tracked position for the point of interest. It is considered

obvious that the point of interest can have any tracked position relative to the ideal position. For example it appears in Fig. 2d that the ideal position for the pixel of interest has the same Y, but different X coordinates as the tracked positions. Therefore it would have been obvious to one of ordinary skill in the art at the time of invention to enable tracking of coordinates where the point of interest has the same X-coordinates and different Y-coordinates with respect to the tracked positions in order to track any kind of motion between the frames.

With regard to claim 20, van der Wal discloses a method for stabilizing a sequence comprising calculating a first position of a point of interest in a first frame (Fig. 2a and column 6, lines 31-41). The "x" in the frames is considered to be the first position of a point of interest in frame 200 at $F(t)$.

Van der Wal further discloses identifying estimated positions of points of interest in a second frame and a third frame that correspond to the point of interest in the first frame (Fig. 2a and column 6, lines 31-41). The "x" in the frames is considered to be the point of interest displayed in the sequence of frames.

Van der Wal further discloses identifying tracked positions of points of interest in the second frame and third frame based on the estimated positions of the point of interest, wherein the tracked positions comprise a second position for the point of interest in the second frame and a third position for the point of interest in the third frame (Fig. 2a and column 6, lines 31-41). The "x" in the frames is considered to be the feature in the second and third frames shown in elements 200 at $F(t+1)$ and $F(t+2)$.

Van der Wal further comprises plotting the first position, the second position, and the third position on an X, Y coordinate graph (Figs. 2a-2b and column 6, lines 42-53).

Van der Wal does not explicitly disclose connecting the first position to the third position to the third position on the X, Y coordinate graph, wherein ideal positions of the point of interest in the first frame, second frame, and third frame lie on the connection.

However Van der Wal discloses plotting the points of interest on a common X, Y coordinate plain and using that plot to determine image shift and other stabilization information and the plots are connected in some form to determine movement from one frame to the next (Figs. 2a-2d and column 6, lines 42-53). The order in which the points are connected could obviously vary according to the stabilization effect desired. Therefore it would have been obvious to one of ordinary skill in the art at the time of invention to connect or use the spatial relationship between points in the plot of sequential frames as taught by Van der Wal in any order to achieve a desired stabilization effect.

With regard to claim 24, Van der Wal discloses determining whether to perform global tracking or matching to generate estimated points of interest (Figs. 2a-2d and column 6, lines 42-53 and Fig.4 and column 7, lines 10-40). Van der Wal discloses how a hierarchy is used to match or correlate the pixel neighborhoods in a pyramid matching sequence.

With regard to claim 25, Van der Wal discloses wherein the determination is based on whether camera motion for the sequence of frames is fast or slow (column 6, lines 16-30). Van der Wal discloses that a determination is made between whether the motion of the image is caused by fast motion or slow motion.

Claims 13, 14, 45, and 57-60 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of U.S. Patent 5,963,675 to van der Wal et al. and U.S. Patent 6,459,822 to Hathaway et al.

With regard to claim 13, van der Wal discloses the method of claim 1 but does not explicitly disclose wherein transformation information comprises rotation, scaling, shearing, and/or translation information for each pixel of each other frame in the sequence of frames. Hathaway discloses a method for stabilizing and registering a video image in multiple video fields and compensating for rotation, magnification (or scale and translation (column 2, lines 49-62). Hathaway teaches that the magnification change, translation and rotation information is used to de-magnify, de-translate, and de-rotate the other image frames to give the appearance of the key area being motionless (column 11, lines 26-34). Therefore it would have been obvious to one of ordinary skill in the art at the item of invention to use the magnification, and rotation operations additionally in the translation system of van der Wal in order to give the appearance of the key area being motionless or stable.

With regard to claim 14, Hathaway discloses wherein transforming each other frame further comprises adjusting each pixel in each other frame based on the rotation, scaling, shearing, and/or translation information (column 11, lines 26-34). Hathaway discloses modifying the data or pixel information in each field other than the key field or frame.

With regard to claim 45, Van der wal discloses the system of claim 41, but does not explicitly disclose wherein transforming information comprises rotation, scaling, shearing, and/or translation information for each pixel of a frame. Hathaway discloses a method for stabilizing and registering a video image in multiple video fields and compensating for rotation, magnification or scale and translation (column 2, lines 49-62). Hathaway teaches that the magnification change, translation and rotation information is used to de-magnify, de-translate, and de-rotate the other image frames to give the appearance of the key area being motionless (column 11, lines 26-34). Therefore it would have been obvious to one of ordinary skill in the art at the item of invention to use the magnification, and rotation operations additionally in the translation system of Van der Wal in order to give the appearance of the key area being motionless or stable.

With regard to claim 57, the discussion of claim 13 applies.

With regard to claims 58-60, the discussions of claims 15-17 apply.

Claims 18, 19, and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of U.S. Patent 5,963,675 to van der Wal et al. and U.S. Patent 6,636,220 to Szeliski et al.

With regard to claim 18, van der Wal discloses the method of claim 1, but does not disclose performing frame averaging. Szeliski discloses performing frame averaging and teaches that it is used in order to compensate for ghosting and blurring (column 22, lines 57-67 and column 23, lines 1-16). Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to perform frame averaging in order to compensate for ghosting and blurring.

With regard to claim 19, the discussion of claim 18 applies. Szeliski performs de-blurring which is equivalent to sharpening.

With regard to claim 40, the discussions of claims 18 and 19 apply.

Claims 15, 21 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 5,963,675 to van der Wal et al. hereinafter referred to as Van der Wal

5 in view of U.S. Patent 6,567,574 to Van der Wal et al. herein after referred to as Van der Wal 6.

With regard to claim 15, Van der Wal 5 discloses the method of claim 1, but does not disclose wherein transforming each other frame in a sequence of frames further comprises performing affine transformation using the tracked positions and the ideal positions. Van der Wal 6 discloses affine transformation (column 7, lines 20-25). Van der Wal 6 teaches that affine transformation may be used as a general transformation in aligning frames from video signals in the method of Van der Wal 5. Therefore it would have been obvious to one of ordinary skill in the art at the time of invention to use affine transformation as taught by Van der Wal 6 in the method of Vander Wal 5 in order to perform general transformation in video frames.

With regard to claim 21, the discussion of claims 15 and 20 apply.

With regard to claim 37, the discussion of claims 15 and 26 apply.

Claims 16, 17, 22, 23, 38, and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of U.S. Patent 5,963,675 to van der Wal et al. hereinafter referred to as Van der Wal 5 in view of U.S. Patent 6,567,574 to Van der Wal et al. herein after referred to as Van der Wal 6 and further in view of U.S. Patent 6,459,822 to Hathaway et al.

With regard to claim 16, van der Wal 5 and Van der Wal 6 disclose the method of claim 15, wherein performing affine transformation further comprises determining values of coefficients representing rotation, scaling, shearing, and/or translation information using the tracked positions and the ideal positions. Hathaway discloses a method for stabilizing and registering a video image in multiple video fields and compensating for rotation, magnification (or scale and translation (column 2, lines 49-62). Hathaway also discloses using coefficients as a measure of correlation, which provides a measure of rotation, translation, or magnification (column 6, lines 1-11). Hathaway teaches that the magnification change, translation and rotation information is used to de-magnify, de-translate, and de-rotate the other image frames to give the appearance of the key area being motionless (column 11, lines 26-34). Therefore it would have been obvious to one of ordinary skill in the art at the item of invention to use the magnification, and rotation operations additionally in the translation system of van der Wal in order to give the appearance of the key area being motionless or stable.

With regard to claim 17, Hathaway discloses applying the values of the coefficients to each pixel of the first frame to obtain positions of each pixel in a second frame (column 6, lines 1-11). Hathaway discloses that the correlation coefficients are applied to determine how to translate or modify the pixels in the other frames.

With regard to claim 22, Van der Wal 5 and Van der Wal 6 disclose performing affine transformation of claim 21, but does not disclose determining values of coefficients representing rotation, scaling, shearing, and/or translation information using the tracked information and the ideal positions. Hathaway discloses a method for stabilizing and registering a video image in multiple video fields and compensating for rotation, magnification (or scale and translation (column 2, lines 49-62). Hathaway also discloses using coefficients as a measure of correlation, which provides a measure of rotation, translation, or magnification (column 6, lines 1-11). Hathaway teaches that the magnification change, translation and rotation information is used to de-magnify, de-translate, and de-rotate the other image frames to give the appearance of the key area being motionless (column 11, lines 26-34). Therefore it would have been obvious to one of ordinary skill in the art at the item of invention to use the magnification, and rotation operations additionally in the translation system of van der Wal in order to give the appearance of the key area being motionless or stable.

With regard to claim 23, Hathaway discloses applying the values of coefficients to each pixel of the first frame to obtain positions of each pixel in the second frame (column 6, lines 1-11). Hathaway discloses that the correlation coefficients are applied to determine how to translate or modify the pixels in the other frames.

With regard to claim 38, Van der Wal 5 and Van derWal 6 disclose the system of claim 37, but does not explicitly disclose wherein execution of the program further

comprises determining values of coefficients representing rotation, scaling, shearing, and/or translation information using the tracked positions and the ideal positions.

Hathaway discloses a method for stabilizing and registering a video image in multiple video fields and compensating for rotation, magnification or scale and translation (column 2, lines 49-62). Hathaway teaches that the magnification change, translation and rotation information is used to de-magnify, de-translate, and de-rotate the other image frames to give the appearance of the key area being motionless (column 11, lines 26-34). Therefore it would have been obvious to one of ordinary skill in the art at the item of invention to use the magnification, and rotation operations additionally in the translation system of Van der Wal in order to give the appearance of the key area being motionless or stable.

With regard to claim 39, Hathaway discloses wherein the execution of the program further comprises applying the values of coefficients to each pixel of the first frame to obtain positions of each pixel in a second frame (column 6, lines 1-11). Hathaway discloses that the correlation coefficients are applied to determine how to translate or modify the pixels in the other frames.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wes Tucker whose telephone number is 703-305-6700. The examiner can normally be reached on 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amelia Au can be reached on (703)308-6604. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Wes Tucker

10-20-2004


Jon Chang
Primary Examiner

U.S. Department of Commerce, Patent and Trademark Office					Atty Docket No.	Serial No. 57000329	
					M-12237 US	New Appln.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					Applicant(s) Wei		
(Use several sheets if necessary)					Xiong, Wei		
					Filing Date	Group 971	
					Herewith		Unknown
U.S. Patent Documents							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA						
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Foreign Patent Documents							
		Document	Date	Country	Class	Subclass	Translation
	AD						Yes <input type="checkbox"/> No <input type="checkbox"/>
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>w7</i>	AE	Tommasini et al., "Making Good Features Track Better," pp. 1-6					
<i>w7</i>	AF	Gouet et al., "A Fast Matching Method for Color Uncalibrated Images Using Differential Invariants", British Machine Vision Conference, pp. 368-376					
<i>w7</i>	AG	Foley et al., <u>Computer Graphics Principles and Practice</u> , Second Edition, November 1992, page 207					
<i>w7</i>	AH	Jain, Anil K., <u>Fundamentals of Digital Image Processing</u> , 1989, page 362					
<i>w7</i>	AI	Gonzalez et al., <u>Digital Image Processing</u> , September 1993, pp. 423-439					
<i>w7</i>	AJ	Zhang et al., "A Robust Technique for Matching Two Uncalibrated Images Through the Recovery of the Unknown Epipolar Geometry," No. 2273, Institut National de Recherche en Informatique et en Automatique, May 1994, pp. 3-38					
<i>w7</i>	AK	Zhu et al., "Camera Stabilization Based on 2.5D Motion Estimation and Inertial Motion Filtering", 1998 IEEE International Conference on Intelligent Vehicles, pp. 329-334					
<i>w7</i>	AL	Durić et al., "Stabilization of Image Sequences", July 1995, pp. 1-47					
<i>w7</i>	AM	Balakirsky et al., "Performance Characterization of Image Stabilization Algorithms", April 1996, pp. 1-29					
Examiner <i>Wei</i>		Date Considered 10-19-04					
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.</p>							

Notice of References Cited	Application/Control No.	Applicant(s)/Patent Under Reexamination	
	10/003,329	XIONG, WEI	
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
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